

INTERNATIONAL SEARCH REPORT

<table border="1" style="float: right; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Internatl</td> <td style="padding: 2px 5px;">Application No</td> </tr> <tr> <td style="padding: 2px 5px;">PCT/</td> <td style="padding: 2px 5px;">03/03674</td> </tr> </table>		Internatl	Application No	PCT/	03/03674
Internatl	Application No				
PCT/	03/03674				
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04B15/04 H02M1/12					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04B H02M H03F					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	US 6 249 876 B1 (BALAKRISHNAN BALU ET AL) 19 June 2001 (2001-06-19) the whole document	1,2,4,5, 7,8			
X	US 5 537 305 A (COLOTTI JAMES) 16 July 1996 (1996-07-16) cited in the application column 4, line 6 -column 4, line 11; claim 7; figure 1	1,2,4,5, 7,8			
X	WO 02 19551 A (CIRRUS LOGIC INC) 7 March 2002 (2002-03-07) page 2, line 4 -page 2, line 15; figures 1,2	1,2,7,8			
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<table style="width: 100%;"> <tr> <td style="width: 50%;"><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</td> <td style="width: 50%;"><input checked="" type="checkbox"/> Patent family members are listed in annex.</td> </tr> </table>			<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.	<input checked="" type="checkbox"/> Patent family members are listed in annex.	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.	<input checked="" type="checkbox"/> Patent family members are listed in annex.				
* Special categories of cited documents :					
<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filing date but later than the priority date claimed </td> <td style="width: 50%; vertical-align: top;"> *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family </td> </tr> </table>			*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filing date but later than the priority date claimed	*T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family	
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filing date but later than the priority date claimed	*T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family				
Date of the actual completion of the International search <div style="text-align: center;">3 November 2003</div>	Date of mailing of the International search report <div style="text-align: center;">12/11/2003</div>				
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <div style="text-align: center;">Braccini, R</div>				

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Internat. Application No.
PCT/ 03/03674

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02, 29 February 2000. (2000-02-29) & JP 11 332230 A (ALINCO INC), 30 November 1999 (1999-11-30) abstract</p>	1,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT, 03/03674

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6249876	B1	19-06-2001	NONE	
US 5537305	A	16-07-1996	NONE	
WO 0219551	A	07-03-2002	AU 8549101 A EP 1314256 A2 TW 519792 B WO 0219551 A2	13-03-2002 28-05-2003 01-02-2003 07-03-2002
JP 11332230	A	30-11-1999	NONE	